

METHOD OF USING LOW BANDWIDTH SENSOR FOR MEASURING HIGH  
FREQUENCY AC MODULATION AMPLITUDE

ABSTRACT OF THE DISCLOSURE

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A slow monitor diode having a bandwidth only partially overlapping a lower end of a data transmission spectrum for a data transmission laser is employed to detect and control average output power of the data transmission laser and, from peak-to-peak measurements, optical modulation amplitude. The output current from the monitor diode reaches a peak value for long runs of consecutive logical 1's or 0's. Using peak detectors with a long decay rate, the peak-to-peak signal amplitude, directly representative of optical modulation amplitude, may be determined.